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March 27, 2019

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
Post Office Drawer 11649
Columbia, South Carolina 29211

RE: Duke Energy Progress, LLC – Monthly Power Plant Performance Report
Docket No. 2006-224-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is the Monthly Power Plant Performance Report in Docket No. 2006-224-E for the month of February 2019.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803.988.7130.

Sincerely,

Rebecca J. Dulin

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Mr. Jeffrey M. Nelson, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Mr. Michael Seaman-Huynh, Office of Regulatory Staff
Ms. Heather Shirley Smith, Duke Energy
Mr. Scott Elliott, Elliott & Elliott, P.A.
Mr. Garrett Stone, Brickfield, Burchette, Ritts & Stone, PC
Mr. Gary Walsh, Walsh Consulting, LLC

Duke Energy Progress
Base Load Power Plant Performance Review Plan

Period: February, 2019

Station	Unit	Date of Outage	Duration of Outage	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Action Taken
Brunswick	1	None					
	2	None					
Harris	1	None					
Robinson	2	None					

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2019

Lee Energy Complex

No Outages at Baseload Units During the Month.

Richmond County Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
7	2/5/2019 12:29:00 PM To 2/5/2019 12:30:00 PM	Unsch	5299	Other Gas Turbine Problems	Unit tripped to Hi Hi Haz Gas	
7	2/5/2019 12:30:00 PM To 2/7/2019 9:06:00 PM	Sch	5299	Other Gas Turbine Problems	Repair gas leaks in turbine compartment	
7	2/23/2019 3:00:00 AM To 3/8/2019 9:25:00 PM	Sch	5272	Gas Turbine - Boroscope Inspection	Borescope and BOP outage	
8	2/23/2019 3:00:00 AM To 3/8/2019 11:23:00 PM	Sch	5272	Gas Turbine - Boroscope Inspection	Borescope and BOP outage	
ST4	2/23/2019 2:58:00 AM To 3/9/2019 12:38:00 AM	Sch	5272	Gas Turbine - Boroscope Inspection	Borescope inspections on U7, U8 and BOP outage	

Sutton Energy Complex

No Outages at Baseload Units During the Month.

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Base Load Power Plant Performance Review Plan

February 2019
Brunswick Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	938		932	
(B) Period Hours	672		672	
(C) Net Gen (mWh) and Capacity Factor (%)	645,502	102.41	603,573	96.37
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	4,779	0.76	21,713	3.47
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-19,945	-3.17	1,018	0.16
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	630,336	100.00%	626,304	100.00%
(K) Equivalent Availability (%)		99.24		98.02
(L) Output Factor (%)		102.41		96.37
(M) Heat Rate (BTU/NkWh)		10,295		10,939

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant Performance Review Plan

February 2019
Harris Nuclear Station

	Unit 1	
(A) MDC (mW)	964	
(B) Period Hours	672	
(C) Net Gen (mWh) and Capacity Factor (%)	669,919	103.41
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-22,111	-3.41
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	647,808	100.00%
(K) Equivalent Availability (%)		100.00
(L) Output Factor (%)		103.41
(M) Heat Rate (BTU/NkWh)		10,064

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant Performance Review Plan

February 2019
Robinson Nuclear Station

	Unit 2	
(A) MDC (mW)	741	
(B) Period Hours	672	
(C) Net Gen (mWh) and Capacity Factor (%)	532,031	106.84
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-34,079	-6.84
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	497,952	100.00%
(K) Equivalent Availability (%)		100.00
(L) Output Factor (%)		106.84
(M) Heat Rate (BTU/NkWh)		10,071

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2019

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	225	227	228	379	1,059
(B) Period Hrs	672	672	672	672	672
(C) Net Generation (mWh)	127,309	126,150	128,082	241,983	623,524
(D) Capacity Factor (%)	84.20	82.70	83.60	95.01	87.62
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	23,891	26,394	25,134	12,705	88,124
(N) Economic Dispatch: percent of Period Hrs	15.80	17.30	16.40	4.99	12.38
(O) Net mWh Possible in Period	151,200	152,544	153,216	254,688	711,648
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	84.20	82.70	83.60	95.01	87.62
(R) Heat Rate (BTU/NkWh)	9,001	9,036	8,987	4,206	7,144

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2019

Richmond County Station

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	194	194	182	570
(B) Period Hrs	672	672	672	672
(C) Net Generation (mWh)	76,323	85,657	87,923	249,903
(D) Capacity Factor (%)	58.54	65.70	71.89	65.24
(E) Net mWh Not Generated due to Full Scheduled Outages	38,334	27,354	25,668	91,356
(F) Scheduled Outages: percent of Period Hrs	29.40	20.98	20.99	23.85
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	3	0	0	3
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	15,707	17,357	8,713	41,777
(N) Economic Dispatch: percent of Period Hrs	12.05	13.31	7.12	10.91
(O) Net mWh Possible in Period	130,368	130,368	122,304	383,040
(P) Equivalent Availability (%)	70.59	79.02	79.01	76.15
(Q) Output Factor (%)	82.93	83.15	90.98	85.68
(R) Heat Rate (BTU/NkWh)	11,083	11,042	0	7,170

Notes:

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- (R) Includes Light Off BTU's

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2019

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	216	216	248	680
(B) Period Hrs	672	672	672	672
(C) Net Generation (mWh)	127,234	127,796	158,036	413,066
(D) Capacity Factor (%)	87.66	88.04	94.83	90.39
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	17,918	17,356	8,620	43,894
(N) Economic Dispatch: percent of Period Hrs	12.34	11.96	5.17	9.61
(O) Net mWh Possible in Period	145,152	145,152	166,656	456,960
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	87.66	88.04	94.83	90.39
(R) Heat Rate (BTU/NkWh)	11,048	10,975	0	6,799

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2019

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	224	224	271	719
(B) Period Hrs	672	672	672	672
(C) Net Generation (mWh)	123,251	123,475	136,796	383,522
(D) Capacity Factor (%)	81.88	82.03	75.12	79.38
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	27,277	27,053	45,316	99,646
(N) Economic Dispatch: percent of Period Hrs	18.12	17.97	24.88	20.62
(O) Net mWh Possible in Period	150,528	150,528	182,112	483,168
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	81.88	82.03	75.12	79.38
(R) Heat Rate (BTU/NkWh)	10,914	10,852	0	7,001

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

Duke Energy Progress
Intermediate Power Plant Performance
Review Plan
February 2019

		Mayo Station Unit 1
(A)	**MDC (mW)**	746
(B)	**Period Hrs**	672
(C)	**Net Generation (mWh)**	32,801
(D)	**Net mWh Possible in Period**	501,312
(E)	**Equivalent Availability (%)**	87.78
(F)	**Output Factor (%)**	38.54
(G)	**Capacity Factor (%)**	6.54

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Intermediate Power Plant Performance
Review Plan
February 2019

	Roxboro Station		
	Unit 2	**Unit 3**	**Unit 4**
(A) MDC (mW)	673	698	711
(B) Period Hrs	672	672	672
(C) Net Generation (mWh)	22,254	76,888	4,312
(D) Net mWh Possible in Period	452,256	469,056	477,792
(E) Equivalent Availability (%)	89.37	99.04	100.00
(F) Output Factor (%)	36.69	59.61	52.74
(G) Capacity Factor (%)	4.92	16.39	0.90

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Base Load Power Plant Performance Review Plan

March 2018 - February 2019
Brunswick Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	938		932	
(B) Period Hours	8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	7,211,135	87.76	7,559,094	92.59
(D) Net mWh Not Gen due to Full Schedule Outages	733,172	8.92	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	58,286	0.71	80,240	0.98
(F) Net mWh Not Gen due to Full Forced Outages	256,700	3.12	252,868	3.10
* (G) Net mWh Not Gen due to Partial Forced Outages	-42,413	-0.51	272,118	3.33
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	8,216,880	100.00%	8,164,320	100.00%
(K) Equivalent Availability (%)		86.54		94.01
(L) Output Factor (%)		99.78		95.55
(M) Heat Rate (BTU/NkWh)		10,417		10,774

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant Performance Review Plan

March 2018 - February 2019
Harris Nuclear Station

	Unit 1	
(A) MDC (mW)	964	
(B) Period Hours	8760	
(C) Net Gen (mWh) and Capacity Factor (%)	7,765,152	94.59
(D) Net mWh Not Gen due to Full Schedule Outages	756,318	9.21
* (E) Net mWh Not Gen due to Partial Scheduled Outages	20,006	0.24
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-331,844	-4.04
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	8,209,632	100.00%
(K) Equivalent Availability (%)		90.44
(L) Output Factor (%)		104.22
(M) Heat Rate (BTU/NkWh)		10,257

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant Performance Review Plan

March 2018 - February 2019
Robinson Nuclear Station

	Unit 2	
(A) MDC (mW)	741	
(B) Period Hours	8760	
(C) Net Gen (mWh) and Capacity Factor (%)	5,267,543	81.15
(D) Net mWh Not Gen due to Full Schedule Outages	1,297,442	19.99
* (E) Net mWh Not Gen due to Partial Scheduled Outages	99,165	1.53
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-172,990	-2.67
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	6,491,160	100.00%
(K) Equivalent Availability (%)		78.71
(L) Output Factor (%)		101.42
(M) Heat Rate (BTU/NkWh)		10,469

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2018 through February, 2019

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	225	227	228	379	1,059
(B) Period Hrs	8,760	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,408,310	1,415,897	1,434,504	2,810,791	7,069,502
(D) Capacity Factor (%)	71.45	71.20	71.82	84.66	76.21
(E) Net mWh Not Generated due to Full Scheduled Outages	73,316	85,738	88,863	132,069	379,986
(F) Scheduled Outages: percent of Period Hrs	3.72	4.31	4.45	3.98	4.10
(G) Net mWh Not Generated due to Partial Scheduled Outages	271,178	283,193	288,469	52,174	895,013
(H) Scheduled Derates: percent of Period Hrs	13.76	14.24	14.44	1.57	9.65
(I) Net mWh Not Generated due to Full Forced Outages	45,975	37,561	36,096	78,529	198,161
(J) Forced Outages: percent of Period Hrs	2.33	1.89	1.81	2.37	2.14
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	10,042	10,042
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.30	0.11
(M) Net mWh Not Generated due to Economic Dispatch	172,221	166,131	149,348	236,436	724,136
(N) Economic Dispatch: percent of Period Hrs	8.74	8.35	7.48	7.12	7.81
(O) Net mWh Possible in Period	1,971,000	1,988,520	1,997,280	3,320,040	9,276,840
(P) Equivalent Availability (%)	80.19	79.56	79.30	91.78	84.01
(Q) Output Factor (%)	77.69	76.29	76.99	90.84	81.96
(R) Heat Rate (BTU/NkWh)	9,065	9,147	9,056	4,529	7,276

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2018 through February, 2019

Richmond County Station

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	190	190	176	556
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,217,103	1,207,588	1,360,173	3,784,864
(D) Capacity Factor (%)	73.20	72.63	88.16	77.74
(E) Net mWh Not Generated due to Full Scheduled Outages	129,099	118,254	84,182	331,534
(F) Scheduled Outages: percent of Period Hrs	7.76	7.11	5.46	6.81
(G) Net mWh Not Generated due to Partial Scheduled Outages	171,278	175,719	57,051	404,048
(H) Scheduled Derates: percent of Period Hrs	10.30	10.57	3.70	8.30
(I) Net mWh Not Generated due to Full Forced Outages	15,578	22,448	5,014	43,040
(J) Forced Outages: percent of Period Hrs	0.94	1.35	0.32	0.88
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	12,850	12,850
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.83	0.26
(M) Net mWh Not Generated due to Economic Dispatch	129,663	138,711	23,641	292,015
(N) Economic Dispatch: percent of Period Hrs	7.80	8.34	1.53	6.00
(O) Net mWh Possible in Period	1,662,720	1,662,720	1,542,912	4,868,352
(P) Equivalent Availability (%)	81.00	80.96	89.72	83.74
(Q) Output Factor (%)	80.50	80.37	93.99	84.83
(R) Heat Rate (BTU/NkWh)	11,342	11,176	0	7,213

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2018 through February, 2019

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	216	216	248	680
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,474,840	1,486,016	1,920,804	4,881,660
(D) Capacity Factor (%)	77.94	78.54	88.42	81.95
(E) Net mWh Not Generated due to Full Scheduled Outages	105,660	107,431	125,182	338,273
(F) Scheduled Outages: percent of Period Hrs	5.58	5.68	5.76	5.68
(G) Net mWh Not Generated due to Partial Scheduled Outages	204,932	200,535	0	405,468
(H) Scheduled Derates: percent of Period Hrs	10.83	10.60	0.00	6.81
(I) Net mWh Not Generated due to Full Forced Outages	3,920	277	0	4,198
(J) Forced Outages: percent of Period Hrs	0.21	0.01	0.00	0.07
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	1,848	1,848
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.09	0.03
(M) Net mWh Not Generated due to Economic Dispatch	102,807	97,900	124,646	325,354
(N) Economic Dispatch: percent of Period Hrs	5.43	5.17	5.74	5.46
(O) Net mWh Possible in Period	1,892,160	1,892,160	2,172,480	5,956,800
(P) Equivalent Availability (%)	83.38	83.71	94.15	87.41
(Q) Output Factor (%)	83.21	83.29	93.82	87.11
(R) Heat Rate (BTU/NkWh)	11,272	11,221	0	6,821

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2018 through February, 2019

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	224	224	271	719
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,134,202	1,106,482	1,222,173	3,462,857
(D) Capacity Factor (%)	57.80	56.39	51.48	54.98
(E) Net mWh Not Generated due to Full Scheduled Outages	204,202	273,175	252,956	730,334
(F) Scheduled Outages: percent of Period Hrs	10.41	13.92	10.66	11.60
(G) Net mWh Not Generated due to Partial Scheduled Outages	220,747	203,720	16,620	441,088
(H) Scheduled Derates: percent of Period Hrs	11.25	10.38	0.70	7.00
(I) Net mWh Not Generated due to Full Forced Outages	132,765	166,996	569,475	869,235
(J) Forced Outages: percent of Period Hrs	6.77	8.51	23.99	13.80
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	12,685	12,685
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.53	0.20
(M) Net mWh Not Generated due to Economic Dispatch	270,324	211,867	300,051	782,241
(N) Economic Dispatch: percent of Period Hrs	13.78	10.80	12.64	12.42
(O) Net mWh Possible in Period	1,962,240	1,962,240	2,373,960	6,298,440
(P) Equivalent Availability (%)	71.58	67.19	64.12	67.40
(Q) Output Factor (%)	77.45	78.02	78.85	78.12
(R) Heat Rate (BTU/NkWh)	11,387	11,389	0	7,369

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
March, 2018 through February, 2019

Mayo Station

Units	Unit 1
(A) MDC (mW)	746
(B) Period Hrs	8,760
(C) Net Generation (mWh)	1,354,825
(D) Net mWh Possible in Period	6,534,960
(E) Equivalent Availability (%)	67.26
(F) Output Factor (%)	37.04
(G) Capacity Factor (%)	20.73

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
March, 2018 through February, 2019

Roxboro Station

Units	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	673	698	711
(B) Period Hrs	8,760	8,760	8,760
(C) Net Generation (mWh)	1,670,191	1,427,117	1,602,823
(D) Net mWh Possible in Period	5,895,480	6,114,480	6,228,360
(E) Equivalent Availability (%)	75.39	63.11	56.31
(F) Output Factor (%)	50.51	49.13	54.13
(G) Capacity Factor (%)	28.33	23.34	25.73

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Outages for 100 mW or Larger Units
February, 2019

Unit Name	Capacity Rating (mW)	Full Outage Hours		
		Scheduled	Unscheduled	Total
Brunswick 1	**938**	**0.00**	**0.00**	**0.00**
Brunswick 2	**932**	**0.00**	**0.00**	**0.00**
Harris 1	**964**	**0.00**	**0.00**	**0.00**
Robinson 2	**741**	**0.00**	**0.00**	**0.00**

Duke Energy Progress
Outages for 100 mW or Larger Units
February 2019

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Asheville Steam 1	192	0.00	0.00	0.00
Asheville Steam 2	192	71.25	81.87	153.12
Asheville CT 3	185	0.00	7.92	7.92
Asheville CT 4	185	0.00	0.00	0.00
Darlington CT 12	133	0.00	0.00	0.00
Darlington CT 13	133	0.00	0.00	0.00
Lee Energy Complex CC 1A	225	0.00	0.00	0.00
Lee Energy Complex CC 1B	227	0.00	0.00	0.00
Lee Energy Complex CC 1C	228	0.00	0.00	0.00
Lee Energy Complex CC ST1	379	0.00	0.00	0.00
Mayo Steam 1	746	0.00	0.00	0.00
Richmond County CT 1	189	0.00	8.98	8.98
Richmond County CT 2	187	51.20	0.00	51.20
Richmond County CT 3	185	0.00	0.00	0.00
Richmond County CT 4	186	0.00	0.00	0.00
Richmond County CT 6	187	0.00	0.00	0.00
Richmond County CC 7	194	197.60	0.02	197.62
Richmond County CC 8	194	141.00	0.00	141.00
Richmond County CC ST4	182	141.03	0.00	141.03
Richmond County CC 9	216	0.00	0.00	0.00
Richmond County CC 10	216	0.00	0.00	0.00
Richmond County CC ST5	248	0.00	0.00	0.00

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress
Outages for 100 mW or Larger Units
February 2019

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Roxboro Steam 1	380	0.00	0.00	0.00
Roxboro Steam 2	673	0.00	71.40	71.40
Roxboro Steam 3	698	0.00	0.00	0.00
Roxboro Steam 4	711	0.00	0.00	0.00
Sutton Energy Complex CC 1A	224	0.00	0.00	0.00
Sutton Energy Complex CC 1B	224	0.00	0.00	0.00
Sutton Energy Complex CC ST1	271	0.00	0.00	0.00
Wayne County CT 10	192	0.00	0.00	0.00
Wayne County CT 11	192	58.00	0.00	58.00
Wayne County CT 12	193	0.00	0.00	0.00
Wayne County CT 13	191	0.00	0.00	0.00
Wayne County CT 14	195	0.00	0.00	0.00

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.